

Appl. No. 10/027,400
Amdt. dated September 16, 2005
Reply to Office Action of April 19, 2005

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-55 (canceled).

Claim 56 (new): A method of selecting a molecule capable of inhibiting binding of a PI3 kinase protein which binds to a PDGF receptor polypeptide, the method comprising the steps of:

contacting the PI3 kinase protein with the PDGF receptor polypeptide in the presence of a test molecule in a first step;

contacting the PI3 kinase protein with the PDGF receptor polypeptide in the absence of the test molecule in a second step;

wherein the PDGF receptor polypeptide is selected from the group consisting of

- i) a polypeptide consisting of amino acids beginning at 695 and ending at 798 of a B type hPDGF-R, as shown in SEQ ID NO: 4,
- ii) a polypeptide consisting of amino acids beginning at 604 and ending at 951 of a B type hPDGF-R, as shown in SEQ ID NO: 4,
- iii) a polypeptide consisting of amino acids beginning at 695 and ending at 951 of a B type hPDGF-R, as shown in SEQ ID NO: 4, and
- iv) a polypeptide consisting of amino acids beginning at 557 and ending at 951 of a B type hPDGF-R, as shown in SEQ ID NO: 4;

wherein the polypeptide is phosphorylated at Tyr 751 or at Tyr 740; and

comparing the amount of PDGF receptor binding to PI3 kinase in the first and second steps, wherein a lower level of binding detected in the first step is an indication that the test molecule is capable of inhibiting binding of PI3 kinase to PDGF receptor polypeptide, thereby selecting a molecule capable of inhibiting binding of a PI3 kinase protein to a PDGF receptor polypeptide.

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Claim 57 (new): The method of claim 57, wherein the test molecule is selected from the group consisting of peptides, peptide analogues, organic analogue molecules and drugs.

Claim 58 (new): The method of claim 57, wherein the amount of PDGF receptor binding to P13 kinase is detected using a protein kinase activity assay.

Claim 59 (new): The method of claim 57, wherein the peptide is phosphorylated at Tyr 740.

Claim 60 (new): The method of claim 57, wherein the peptide is phosphorylated at Tyr 751.

Claim 61 (new): The method of claim 57, wherein the peptide is phosphorylated at Tyr 751 and at Tyr 740.